

2.1	<b>BUSHING</b>	40	.Rigid wheel supports
2.2	.Providing a restricted or insulated environment (i.e., sealable) for internal elements	41	.Scrapers
2.3	.Bung or tap	42 R	.Sliding
2.4	..Threaded	42 T	..For tubular leg
2.5	.Providing strain relief	43	.Sockets
4	<b>CARPET FASTENERS</b>	44	.Spring supported
5	.Combined fasteners and stretchers	18 A	.Inclined axle
6	.Hook	18 CG	.Caster guard
7	.Moldings	18 B	.Obstruction climbing aid
8	.Rug	48.5	<b>THERMALLY RELEASED CHECK OR CLOSER</b>
10	.Stair	49	<b>CHECKS AND CLOSERS</b>
11	..Risers	51	.Liquid
12	..Rods	52	..Concentric spring chamber
13	...Catches	53	...Cam
14	....Sliding	54	..Hinge
15	....Swinging	55	...Floor pivot
9	.Sliding	56	..Multiple piston
16	.Strips	57	..Oscillating cylinder
17	.Swinging	58	..Oscillating piston
17.1	<b>CARPET STIFFENER OR ANTI-SLIP DEVICE, PER SE</b>	59	..Side spring chamber
18 R	<b>CASTERS</b>	60	...Cam
19	.Adjustable	61	..Spring and flexible link
45	.Wheels	62	..Spring and gear
46	..Antifrictionally mounted	66	.Pneumatic
47	..Multiple	67	..Flexible link
48	...Antifrictionally swivelled	68	..Hinge
20	.Antifrictionally swivelled	69	..Spring and gear
21	..Ball	70	..Spring and lever
22	..Cylinder	63	.Spring and flexible link
23	...Pivoted	64	.Spring and gear
24	.Ball	65	.Spring and lever
25	..Antifrictionally mounted	50	.Hinge
26	...Ball	86.1	<b>GATE HANGERS</b>
27	...Cylinder	86.2	.Sliding and swinging
28	..Pivoted	87 R	<b>PANEL HANGERS, TRAVELERS AND/OR TRACKS</b>
29	.Bracket supports	87.2	.With flexible panel attaching means
30	.Detachable	87.4 R	..Covered, hollow or slotted track
32	.Leg elevators	87.6 R	...With antifriction means
33	..Sliding	87.6 W	....Wood track
34	..Swinging	87.4 W	...Wood track
35 R	.Locked	87.8	..With antifriction means
35 D	..Shimmy dampening	88	.Ball
36	.Lubricators	89	.Cylinder
37	.Pintles	90	.Guide brackets
38	.Pintle retainers	91	.Guide rollers
39	..Frame	92	.Link and lever
31 R	.Frame	93 R	.Sliding shoe
31 A	..Single leg frame or fork	93 D	..Drapery supports
		94 R	.Track and bracket

94 D	..Drapery supports	418	...Swinging
95 R	.Covered, hollow or slotted track	419	..Loop type
95 W	..Wood	420	..Ring type
95 D	..Drapery supports	421	.Handle having mounted grip means (e.g., bicycle handlebar grips, etc.)
95 DW	...Wood		
96 R	.Tracks	422	.Detachable handle
96 D	..Drapery supports	423	..For battery
96 L	..Laminated	424	..For casket
97	.Wheel mounts	425	..For container
98	..Antifrictionally mounted wheels	426	..Auxiliary handle
99	..Door elevating	427	..Extension
100	..Floor	428	..Cord or rope related
101	..Reciprocating track	429	.Extensible handle
102	..Traveling wheel	430	.Handle with ergonomic structure (e.g., finger engagement structure such as indents, grooves, etc.) and handle user-interaction (human engineering) enhancements such as improved handle dimensions and handle positioning
103	..Swinging		
104	..Swiveling		
105	..Vertically adjustable		
106	..Wheel and guide roller		
107	.Wheels		
87 B	.Overlapping doors, common track		
108	<b>FERRULES, RINGS, AND THIMBLES</b>		
109	.Ring ferrules	431	<b>INSULATED HANDLE</b>
110.1	<b>HANDLE, HANDLE COMPONENT, OR HANDLE ADJUNCT</b>	432	.Handwheel
111.1	.Having receptacle within	433	.Knob type
112.1	.For plow	434	.Wire type
113.1	.Length adjustable pull handle for luggage or luggage cart (e.g., wheeled suitcase handle, etc.)	435	.Unshaped or unattached pad
		436	.Bar-type handle
		437	..For lawnmower
		438	..Swinging
114.1	.Luggage-type (loop style) handgrip for carrying (e.g., suitcase, handbag, briefcase, shopping bag, package, etc.)	439	...Casket handle
		440	.Braced handle
		441	.Knob-type handle
405	..Extensible handle	442	..With flexible suspending means
406	..Detachable handle	443	.Lift
407	..Welded or adhesively attached handle	444	.Loop-type handle
		445	..Swinging
408	..Swinging handle	446	.Ring-type handle
409	...With means permanently connecting the handle to a carried article	221	<b>HINGE</b>
		222	.Including frangible or fusible portion
410	..With means permanently connecting the handle to a carried article	223	.With diverse art portion or attachment
		224	.Ball and socket
411	..With carrier handle including a user enhanced grip attachment	225	.Pliant or elastic hinge
		226	..Metallic
412	.Door handle	227	..Snap or X hinge
413	..Detachable handle	228	.Eyeglass hinge
414	..Knob type	229	.Retractable pintle
415	.Drawer pull	230	..Latch hinge
416	..Lift	231	.Latch hinge
417	..Knob type	232	..Resilient securing means

233	.Including lever for shifting one member of hinge relative to another	262	....Pintle removable from remainder of hinge
234	.Having staggered leaves	263	....And additional connector for pintle or separate pintle sections
235	.Including adjustment for changing relative orientation of hinged members	264	....Screw-threaded connector
236	..Having plural independent adjustments	265	...Axially shifting hinge sections
237	...All rectilinear	266	....At specific angular orientation of hinge sections
238	....Including screw-operated means to move hinged members	267	...Hook and pin
239	..Pivotal adjustment	268	...Hook in aperture
240	...Including screw-operated means to move hinged members	269	...Hook to hook
241	....About hinge axis	270	..And discrete movable or removable connector to fasten one hinge section to another
242	..Including means to move hinged members	271	..By relatively sliding connection (e.g., dovetail)
243	...Along or parallel to hinge axis	272	...Including receiving connector attachable to hinged member
244	....Including threaded hinge pin	273	.Having means to reduce friction between hinge parts
245	...Screw-operated	274	..By fluid lubricant
246	....To shift plate toward or away from hinged member	275	..Ball or roller bearing
247	..Having adjustable spacer between leaf and hinged member (e.g., shim)	276	...Circularly distributed balls or rollers
248	..Adjustable along or parallel to hinge axis	277	.Resiliently biased hinge
249	..Having interdigitated surfaces or slot for hinge-to-member fastener	278	..Including means to render spring ineffective through all or a portion of swing
250	.Having cover	279	...Comprising manipulatable element or portion
251	..Leaf cover	280	..Biased from either direction toward neutral position (e.g., double acting)
252	.Having clamp for attaching hinge to hinged member	281	...Helical spring transverse to hinge axis
253	..Circumferential clamp	282	...Plural hinge axes (e.g., multiple pintle)
254	.Having means to facilitate assembly and disassembly of hinge sections to join or disjoin hinged members	283	....And barrels for helical springs on separate axes
255	..Resiliently biased hinge	284	...Resiliently biased rolling or sliding cam surface
256	...Having helical spring along hinge axis	285	...By helical spring along hinge axis
257	..Resiliently biased retaining means	286	..Having transverse helical spring or elastic strip
258	...Having discrete latch and spring to slide or pivot latch	287	...Plural hinge axes (e.g., multiple pintle )
259	...Discrete retaining means for pivotal contacting surfaces	288	....Four or more axes
260	..Separation of pivotal contacting surfaces	289	...To counterbalance weight of hinged member (e.g., closure biased to open position)
261	...Having movable or removable connector	290	....Including pivoted coaxial spring retaining bar

291	...Over-center spring or linkage travel (e.g., "holdback hinge")	318	...Having aperture for slidably receiving pintle (e.g., camming knuckle)
292	...Having means to hold hinged members against pivotal movement about hinge axis (i.e., catch)	319	.Including means to hold or retard hinged members against pivotal movement (e.g., catch)
293	..Over-center spring or linkage travel (e.g., "holdback hinge")	320	..Magnetic
294	...Plural hinge axes	321	..Resiliently biased catch
295	...Coil spring having axis along or parallel to hinge axis	322	...Having spring force adjustment
296	...Including camming or sliding surface to deflect spring perpendicularly to the hinge axis	323	...Including toggle linkage
297	..Having means to hold hinged members against pivotal movement about hinge axis (e.g., catch)	324	...Having discrete manipulatable release means (e.g., lever)
298	..Having force adjustment	325	....Including cam or eccentric
299	...Rotatable spring-engaging collar	326	....Sliding release means or lever-actuated sliding catch
300	....Having detention aperture or protuberance	327	...Sliding
301	....Having tool-receiving aperture	328	....Movement along or parallel to hinge axis
302	..Plural hinge axes (e.g., multiple pintle)	329	.....Interdigitated or plural sockets
303	..Having axially biased camming surface	330	.....Opposed interdigitated sliding collars on hinge axis
304	..Coil	331	.....And catch receiving socket
305	...Plural coils	332	....And catch receiving socket
306	...To counterbalance weight of hinged member (e.g., horizontal closure biased to open position)	333	...Pivoted
307	...On pintle	334	...Plural alternately useable detents
308	..Torsion spring	335	...Spring arm
309	..Gravitating hinge having vertical axis	336	....Plural opposed arms
310	..Having lift rod	337	..By friction
311	..Having plural spaced hinge axes	338	...Screw-threaded adjustment
312	..Including cam surface and follower	339	....Along or parallel to hinge axis
313	...And rolling element	340	.....Threaded pintle
314	....Between opposing surfaces	341	...Cam or wedge actuator
315	....And detent in cam surface	342	...On hinge pin or between surfaces surrounding hinge axis
316	...On axially twisted or helically fluted element	343	..Pivoted
317	...Including means to hold hinged members against pivotal movement	344	...Plural alternately useable detents
		345	...And sliding
		346	...Serially connected pivoted arms between leaves (e.g., brace)
		347	...About axis along or parallel to hinge axis
		348	..By transversely moving pin in slot
		349	..Having discrete manipulatable release means (e.g., lever operated)
		350	..By shifting hinged members
		351	...Along hinge axis
		352	..Sliding

353	...Along or parallel to hinge axis	383	..By expandable connector
354	.Including toothed gear	384	..Self-penetrating fastener
355	.Comprising nested open curved portions attached to hinged members	385	.Specified material
356	..Including hinge pin	386	.Specific pintle structure
357	.Including transversely moving pin in slot	387	.Specific leaf structure
358	..Plural noncollinear pins and slots	388	.Having prongs or cooperating structure on leaf
359	...Parallel slots	389	..Angular leaf sections
360	..Having pin fixed to pivoted arm or plate	390	...Parallel sections
361	..Hinge pin movable along slot	391	...Coplanar sections
362	.Including sliding surfaces to permit relative translation of hinged members	392	...Including planar section perpendicular to hinge axis
363	..And stop or abutment for pivotal movement	71	<b>CLOSERS</b>
364	..Movement transverse to hinge axis	78	.Spring and flexible link
365	.Three-hinged members	79	.Spring and gear
366	.Having plural hinge axes (e.g., multiple pintle)	80	.Spring and lever
367	..Having transverse or skewed axes	72	.Spring
368	..Connected by serially arranged pivoted links between hinged members	73	..Bow
369	...Plural sets of serially arranged pivoted links	74	..Rubber
370	..Four or more axes	75	..Torsional
371	..Including stop or latch	76	...Coil
372	.Including laminated leaf	77	..Volute
373	.Wire hinge	81	.Weight
374	.Having stop or abutment	82	<b>CLOSURE CHECKS</b>
375	..Adjustable or resilient	83	.Inertia
376	..Comprising relieved axially opposed relatively rotating surfaces	84	.Pneumatic
377	..Comprising platelike bearing portion curved about hinge axis	85	.Spring
378	.Hinge axis passes through hinged member (e.g., floor hinge)	86 R	..Rubber
379	..Pintle or pivot concealed in hinged member	86 A	...Rubber cushioned
380	.Including means to retain pintle in hinge (e.g., tamper proof, nonrising pintle, etc,)	86 B	...Multiple or opposed buffer surfaces
381	..Threaded or slotted pintle or knuckle	86 C	...Link type
382	.Including means to fasten leaf to member	193	<b>SASH BALANCES</b>
		194	.Cord and counterweight
		196	.Sash and cord
		197	.Spring
		198	..Drum and cord
		199	..Friction roller
		200	..Lever
		201	..Rack and pinion
		195	.Rack and pinion
		202	<b>SASH-CORD FASTENERS</b>
		203	.Bendable
		204	.Chain
		205	.Clamps
		206	.Hooks
		207	.Knot
		208	.Slack-cord holders
		209	.Weight
		210	<b>SASH-CORD GUIDES</b>
		215	.Wheel and casing
		211	.Casings
		212	..Sheet metal, single piece
		213	.Multiple wheel

214 .Sliding  
 216 **SASH WEIGHTS**  
 217 .Composite  
 218 .Sectional  
 219 .Weight and wheel  
 220 **WINDOW-BEAD FASTENERS**  
 400 **COUNTERBALANCE DEVICE, PER SE**  
 401 .Spring  
 402 **DOOR ESCUTCHEON OR SIMILAR  
 ELEMENT**  
 403 **PAPER WEIGHT**  
 404 **MISCELLANEOUS ELEMENT OR  
 ATTACHMENT**

#### CROSS-REFERENCE ART COLLECTIONS

900 **HANDLE WITH ANGULARLY ADJUSTABLE  
 COMPONENT**  
 901 **HANDLE WITH MANIPULATION THEREOF  
 BY HUMAN BODY PART OTHER THAN  
 THE HAND**  
 902 **UNITARY HANDLE COMPOSED OF  
 DIFFERENT COOPERATING  
 MATERIALS**  
 903 **HANDLE WITH DIVERSE ART  
 ENHANCEMENT (ILLUMINATOR,  
 HEATER, ETC.)**  
 904 **HANDLE MEANS HAVING SANITARY  
 CHARACTERISTIC (E.G., TO  
 PREVENT TRANSMISSION OF GERMS,  
 ETC.)**  
 905 .Toilet seat lifter  
 906 **LIGHT HANDLE COVER**

#### FOREIGN ART COLLECTIONS

##### FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 **MISCELLANEOUS (16/1 R)**

FOR 101 .Counterbalanced (16/1 C)  
 FOR 102 **BRUSHING OR LINING THIMBLES (16/  
 2)**  
 FOR 103 .Wooden receptacle (16/3)  
 FOR 104 **HANDLES (16/110 R)**  
 FOR 105 .Receptacle (16/110.5)  
 FOR 106 .Bar (16/111 R)  
 FOR 107 ..Swinging (16/112)  
 FOR 108 ..Lawn mower (16/111 A)  
 FOR 109 .Braces (16/113)  
 FOR 110 .Detachable (16/114 R)  
 FOR 111 ..Pot (16/114 A)  
 FOR 112 ..Cord (16/114 B)  
 FOR 113 .Extensible (16/115)  
 FOR 114 .Insulated (16/116 R)  
 FOR 115 ..Handwheels (16/117)  
 FOR 116 ..Knob (16/118)  
 FOR 117 ..Loop (16/119)  
 FOR 118 ..Wire (16/120)  
 FOR 119 ..Unshaped and unattached pads  
 (16/166 A)  
 FOR 120 .Knob (16/121)  
 FOR 121 ..Flexible suspending means (16/  
 122)  
 FOR 122 ..Swinging (16/123)  
 FOR 123 .Lifts (16/124)  
 FOR 124 .Loop (16/125)  
 FOR 125 ..Swinging (16/126)  
 FOR 126 .Ring (16/127)  
 FOR 127 .Pot or pan (16/110 A)

#### DIGESTS

DIG 1 **OVERHEAD DOOR**  
 DIG 2 **PAINT GUARD, KICK GUARD**  
 DIG 3 **HOLDDOWN**  
 DIG 4 **MIRROR MOUNT**  
 DIG 5 **PUSH AND PULL BAR**  
 DIG 6 **ANTI-RATTLE**  
 DIG 7 **DOOR OPENING APPARATUS**  
 DIG 8 **WEIGHTS**  
 DIG 9 **HYDRAULIC ACTUATED CHECKS,  
 CLOSERS**  
 DIG 10 **SPRING ACTUATED CHECKS AND  
 CLOSERS**  
 DIG 11 **FIREPLACE SCREEN**  
 DIG 12 **HAND GRIPS, PREFORMED AND SEMI-  
 PERMANENT**  
 DIG 13 **PLASTIC HINGE**  
 DIG 14 **MAGNETIC HINGE**  
 DIG 15 **BATTERY HANDLES**  
 DIG 16 **WINDOW BRAKES, COUNTERBALANCES**

DIG 17 CHECKS AND CLOSERS, HOLDING MEANS  
DIG 18 COMPOSITION HANDLES  
DIG 19 CAST OR MOLDED HANDLES  
DIG 20 DOOR BRAKES (TRACK OR GUIDEWAY)  
DIG 21 CHECKS, CLOSERS, CHECK VALVE  
CONSTRUCTION  
DIG 22 EXPANSION BOLT  
DIG 23 REVERSIBLE  
DIG 24 HANDLE FASTENING MEANS  
DIG 25 HANDLE FASTENING MEANS, CLAMP  
BAND  
DIG 26 HEADLIGHT HINGE  
DIG 27 BEARINGS  
DIG 28 MATTRESS HANDLE  
DIG 29 NESTING HINGE LEAVES  
DIG 30 KNOB, CONTROL LEVER  
DIG 31 PULLEY (DOOR GUIDES AND HANGERS)  
DIG 32 DOOR LATCH  
DIG 33 RUBBER SLEEVE BEARINGS AND HINGES  
DIG 34 ECCENTRIC ADJUSTMENTS  
DIG 35 SKIDWAYS  
DIG 36 SPRING  
DIG 37 NUT LOCK  
DIG 38 LAWN MOWER TYPE TONGUE AND CROSS  
ARM  
DIG 39 ADJUSTMENT MEANS  
DIG 40 ATTACHING MEANS  
DIG 41 COUPLING (HANDLE, ROD, SHAFT)  
DIG 42 METHODS (MISC.)  
DIG 43 HINGE MOUNTING BRACKET

